

Figure 1

SP 0	SP 4	C 8	C 12	C 16	C 20	C 24	C 28
R 1	SP 5	C 9	C 13	C 17	C 21	C 25	C 29
R 2	SP 6	SP 10	SP 14	SP 18	C 22	C 26	C 30
SP 3	SP 7	R 11	R 15	SP 19	C 23	C 27	C 31
C 32	SP 36	SP 40	SP 44	SP 48	C 52	C 56	C 60
C 33	C 37	C 41	C 45	C 49	C 53	C 57	C 61
C 34	C 38	C 42	C 46	C 50	C 54	C 58	C 62
C 25	C 39	C 43	C 47	C 51	C 55	C 59	C 63

Figure 2A

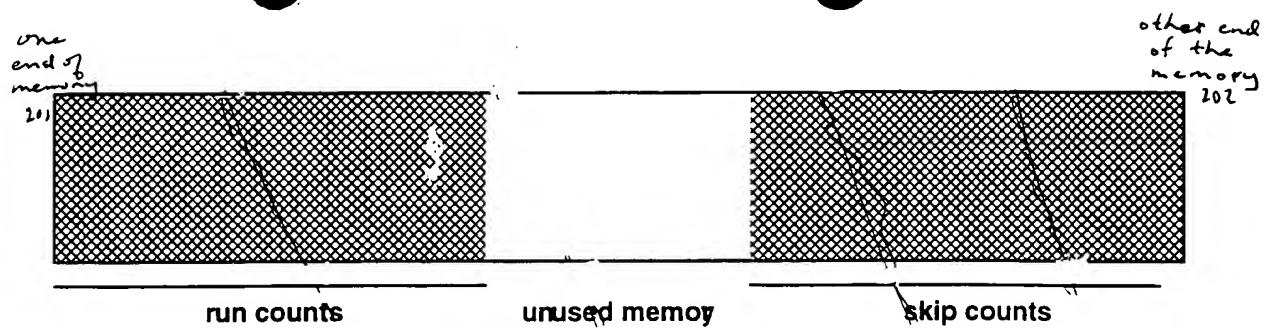


Figure 2B

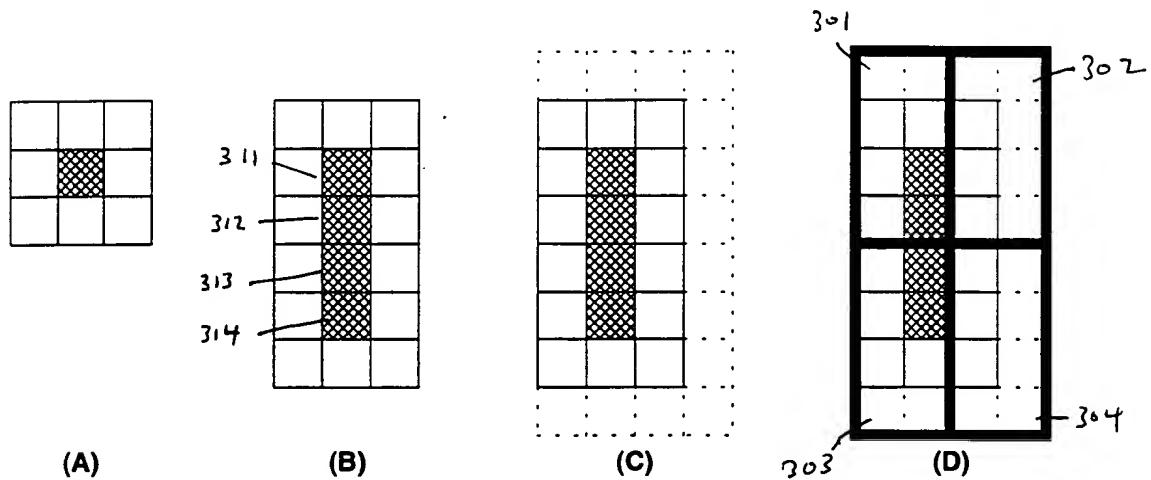
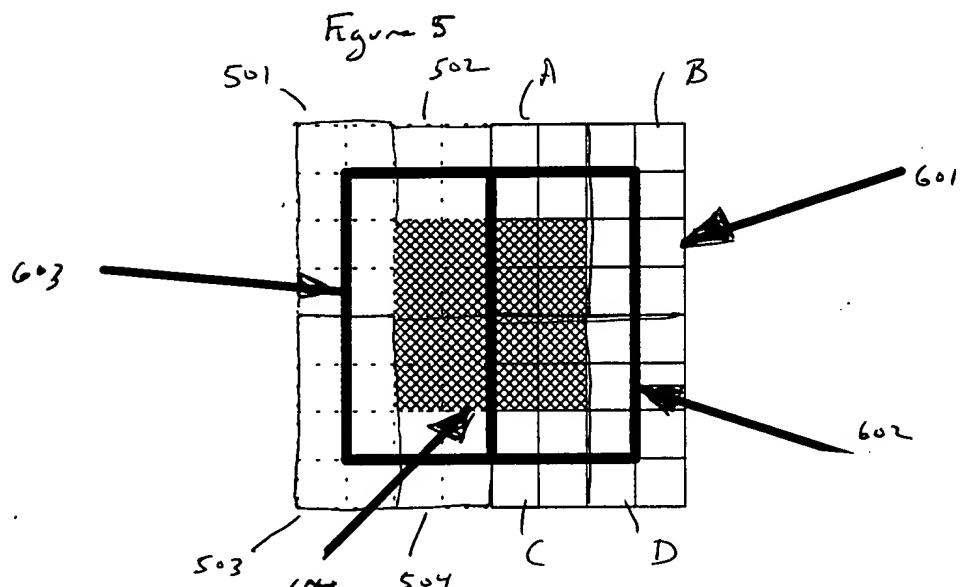
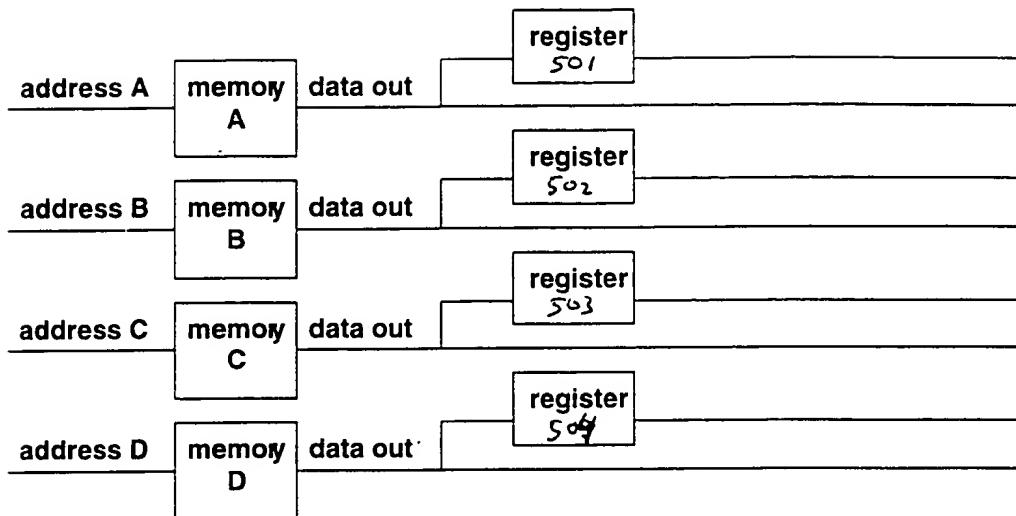


Figure 3

	0	1	2	3	4	5	6	7
0	A	B	A	B	A	B	A	B
1	C	D	C	D	C	D	C	D
2	A	B	A	B	A	B	A	B
3	C	D	C	D	C	D	C	D
0	A	B	A	B	A	B	A	B

Figure 4



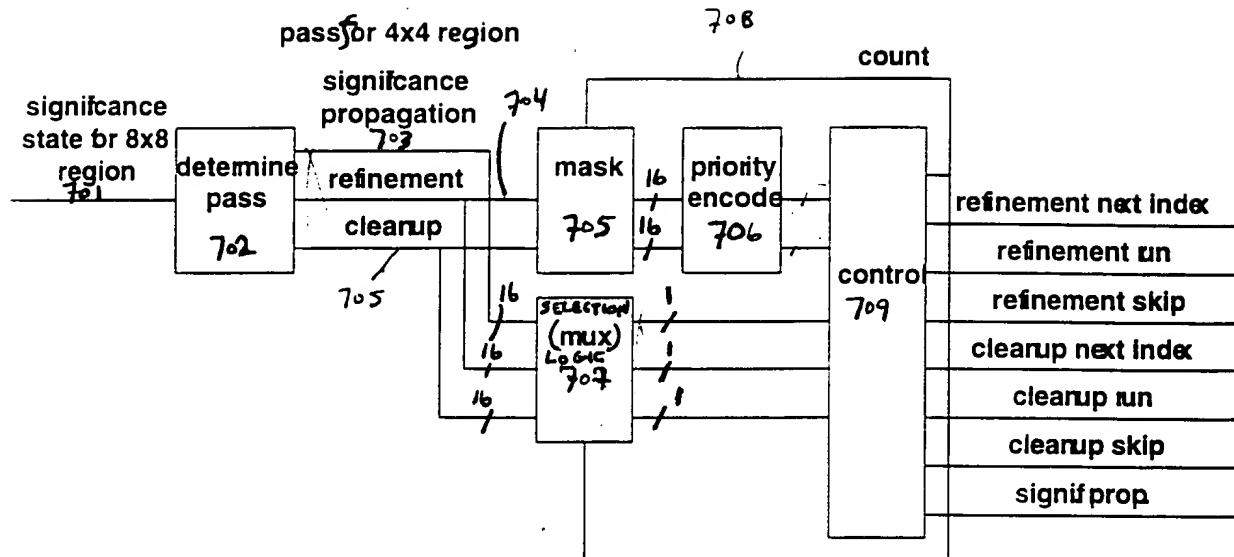


Figure 7

SP	SP	SP	SP
C	C	C	C
SP	SP	SP	SP
SP	R	R	SP

SP = significance propagation
 C = cleanup
 R = refinement

SP pass: 10*2 for SP pass coefficients
 6 for C and R pass coefficients

C pass: 4*2 for C pass coefficients

R pass: 2 for R pass

total: 36 clocks = 2.25 clocks per coefficient

Figure 8

	0	1	2	3
0	A	A	A	A
1	B	B	B	B
2	A	A	A	A
3	B	B	B	B
0	A	A	A	A

Figure 9

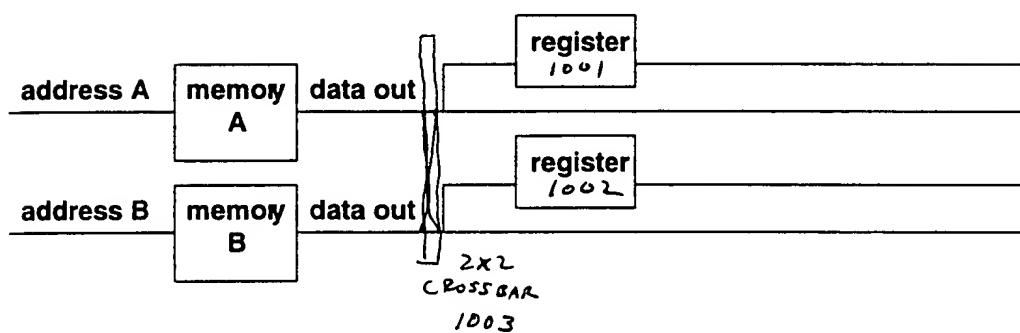


Figure 10

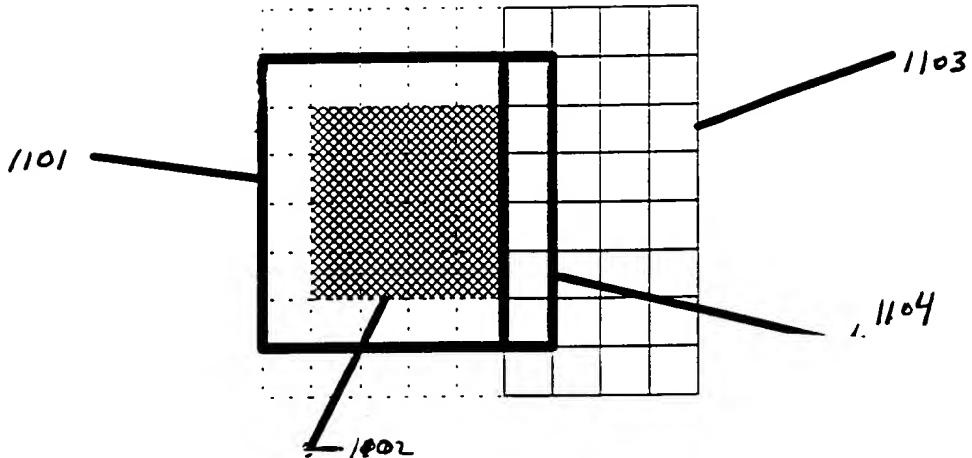


Figure 11

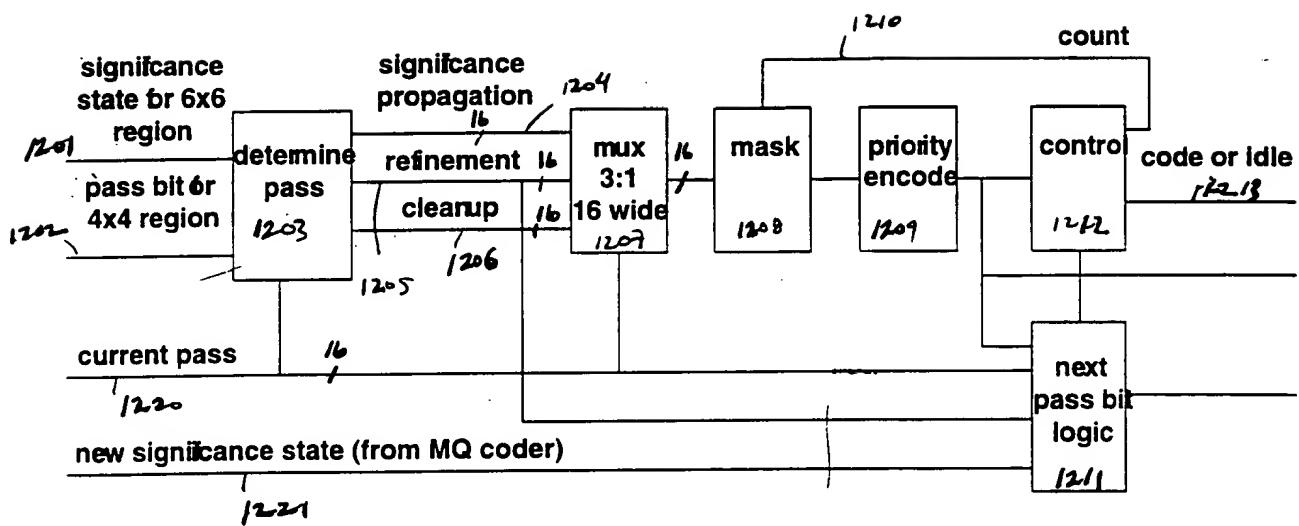


Figure 12

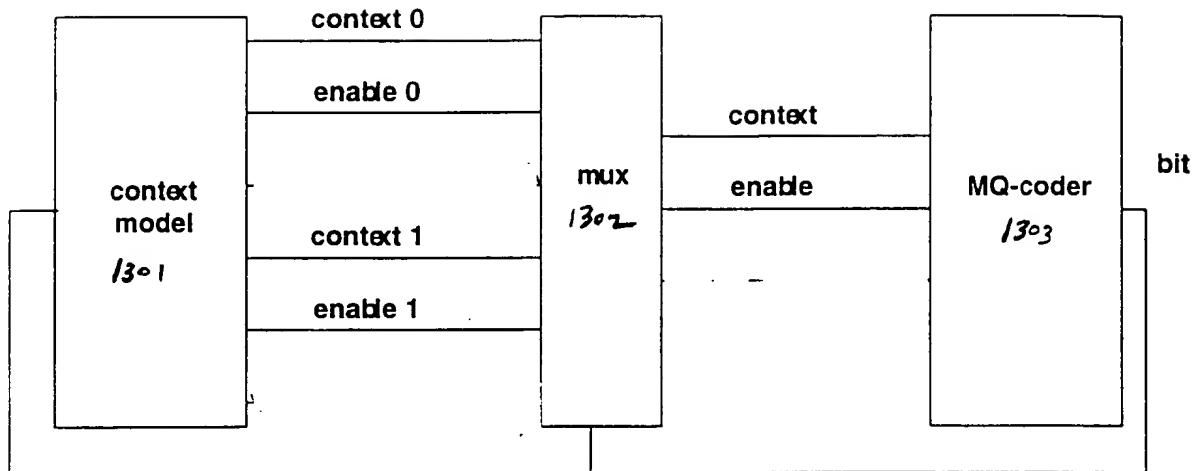


Figure 13

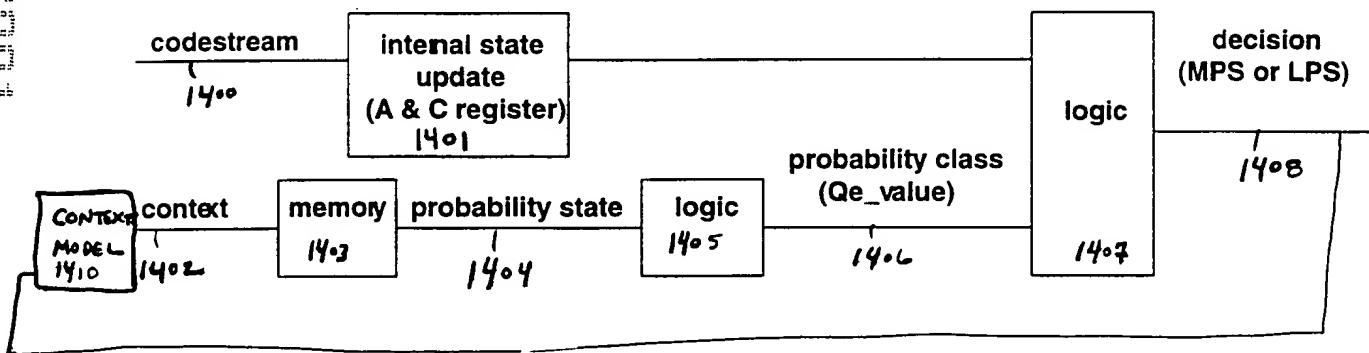


Figure 14A

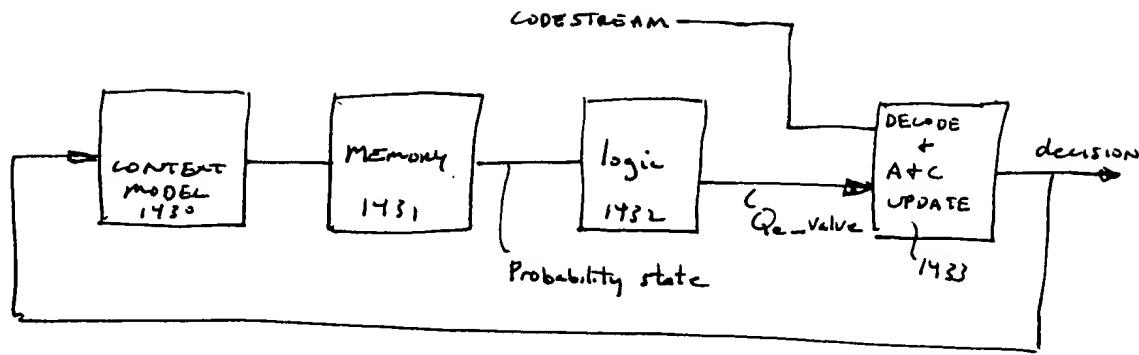


Figure 14B

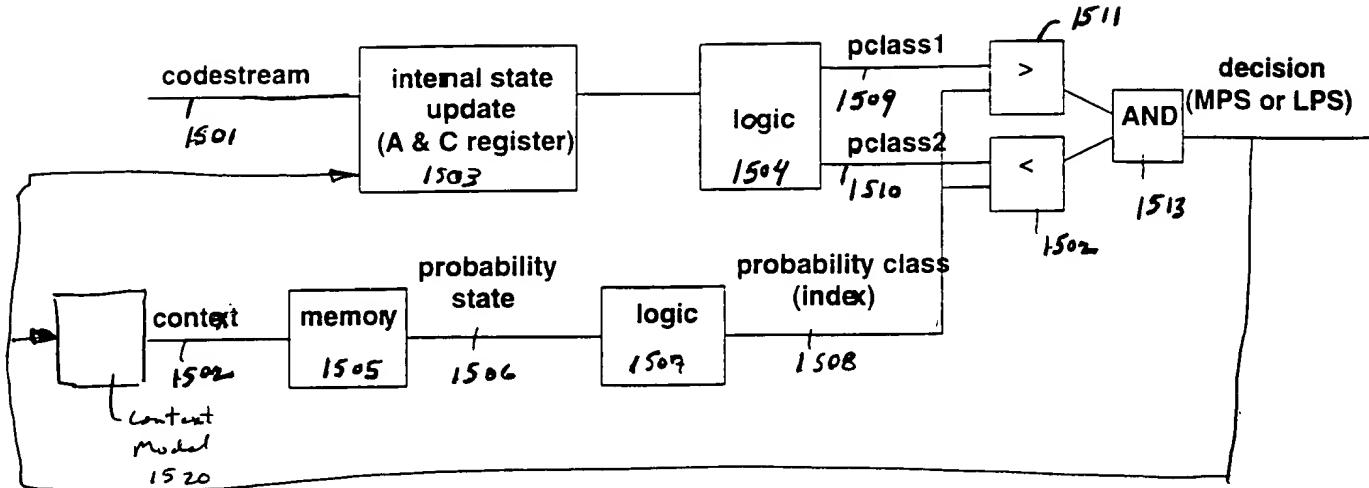


Figure 15

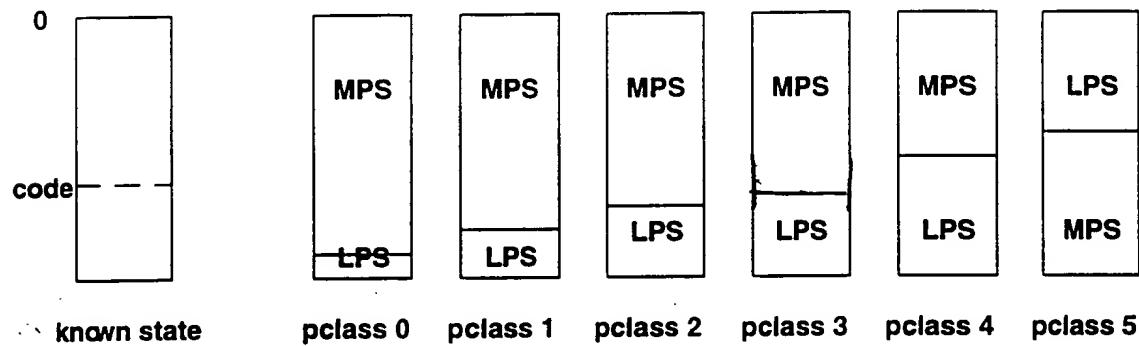


Figure 16A

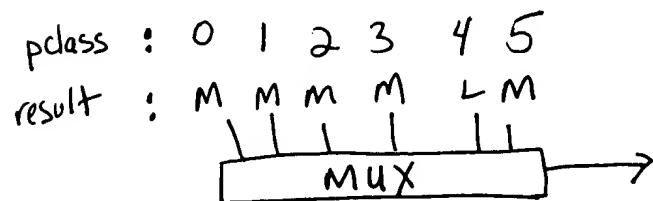
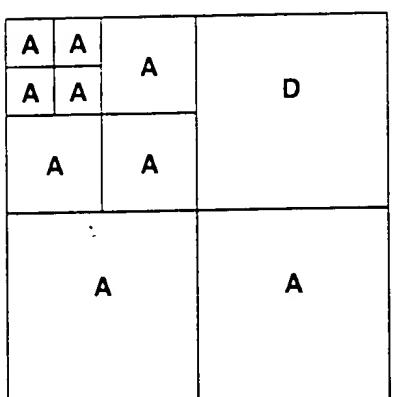


Figure 16B

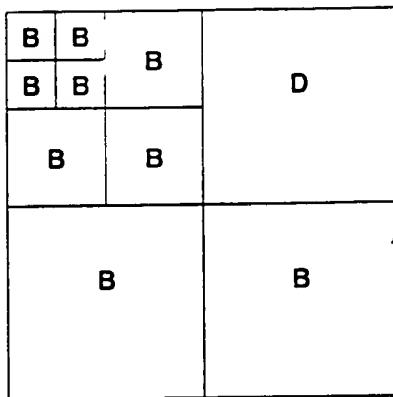
5MPS
4 MPS
3 MPS
2 MPS
1 MPS
LPS

Figure 17

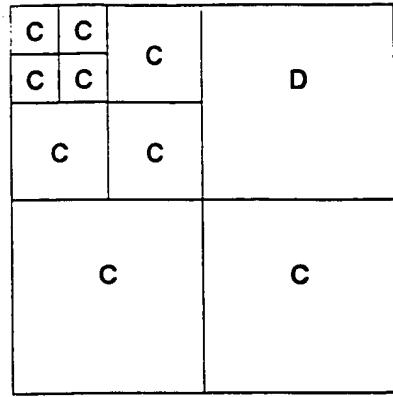
luminance



chrominance

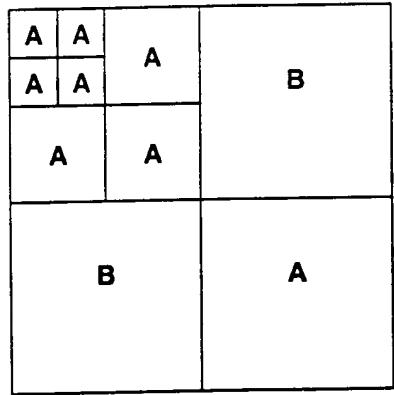


chrominance

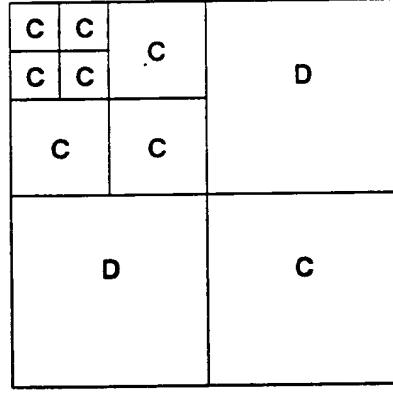


(A)

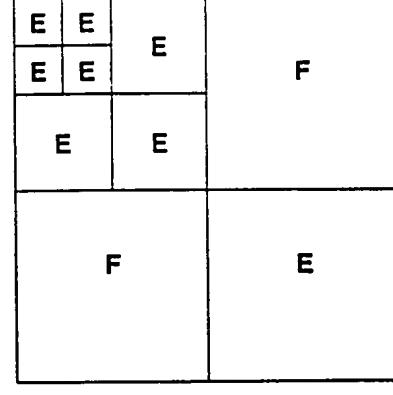
Page 10



— 1 —

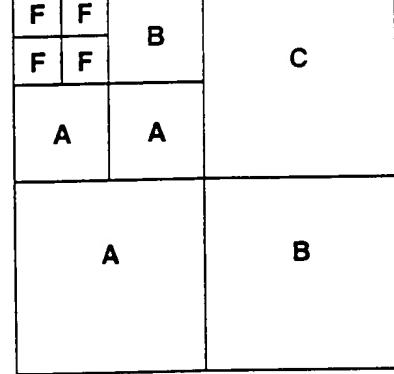


E E

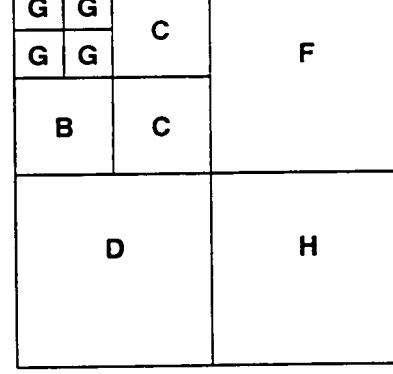


(B)

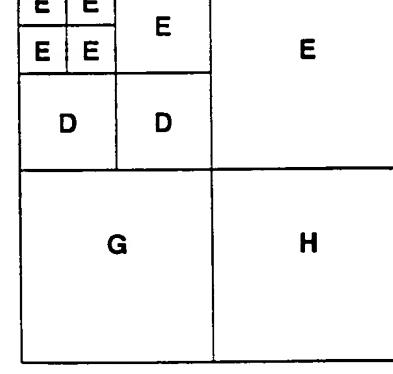
B



C

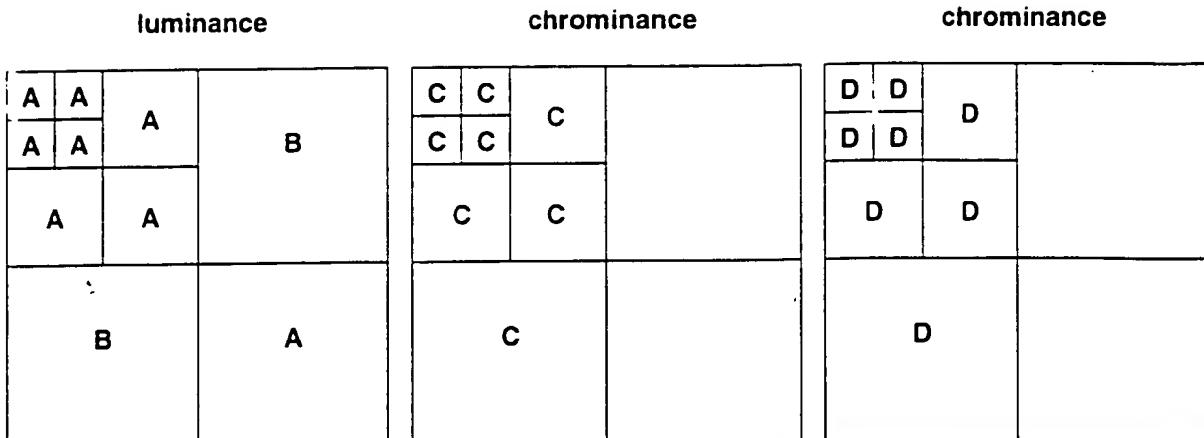


E E

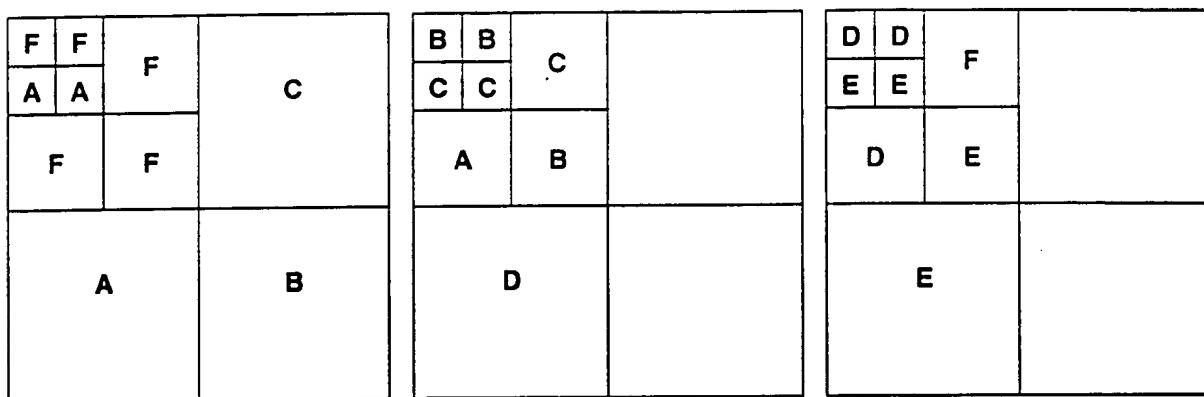


(c)

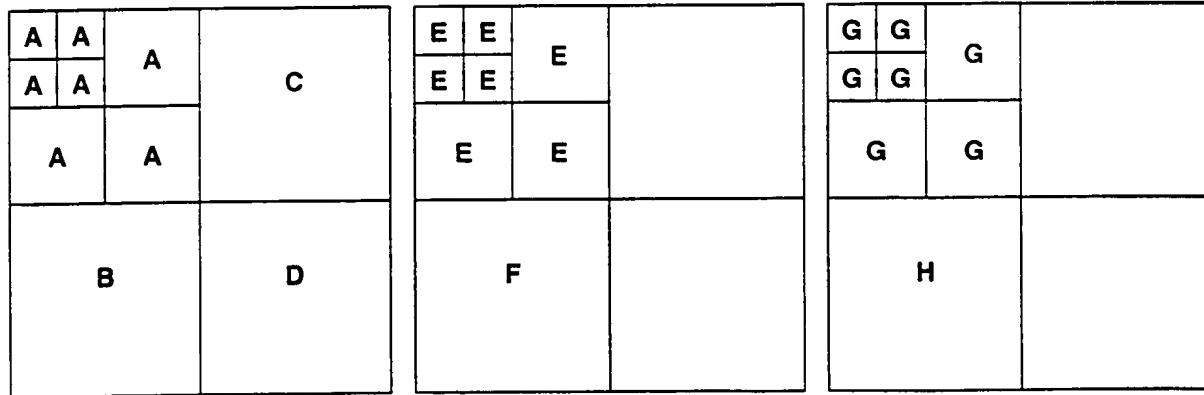
Figure 18



(A)



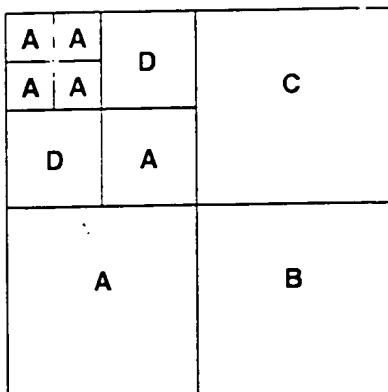
(8)



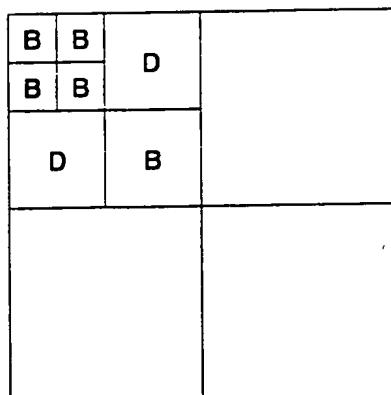
(c)

Figure 19

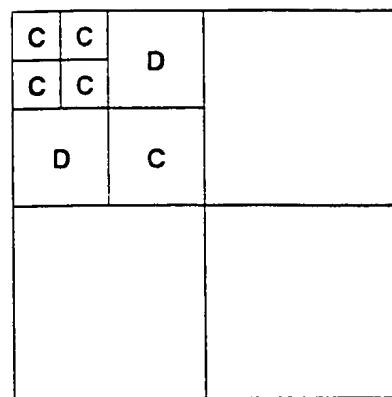
luminance



chrominance

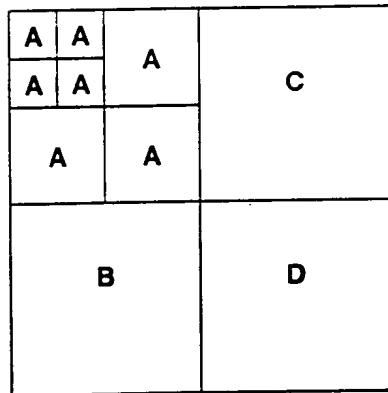


chrominance

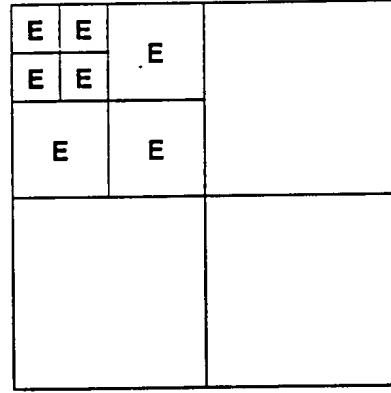


(A)

A



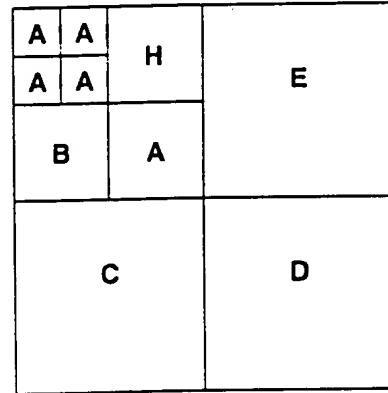
E



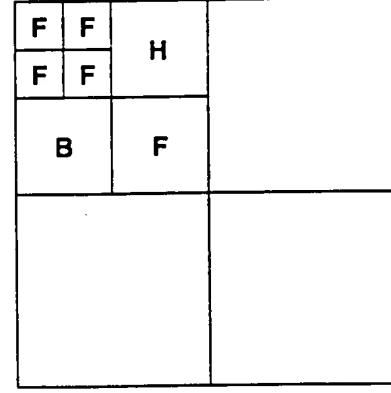
F	F	F	
F	F		
		F	
F		F	

(B)

H



H



G	G	H
G	G	
B	G	

(4)

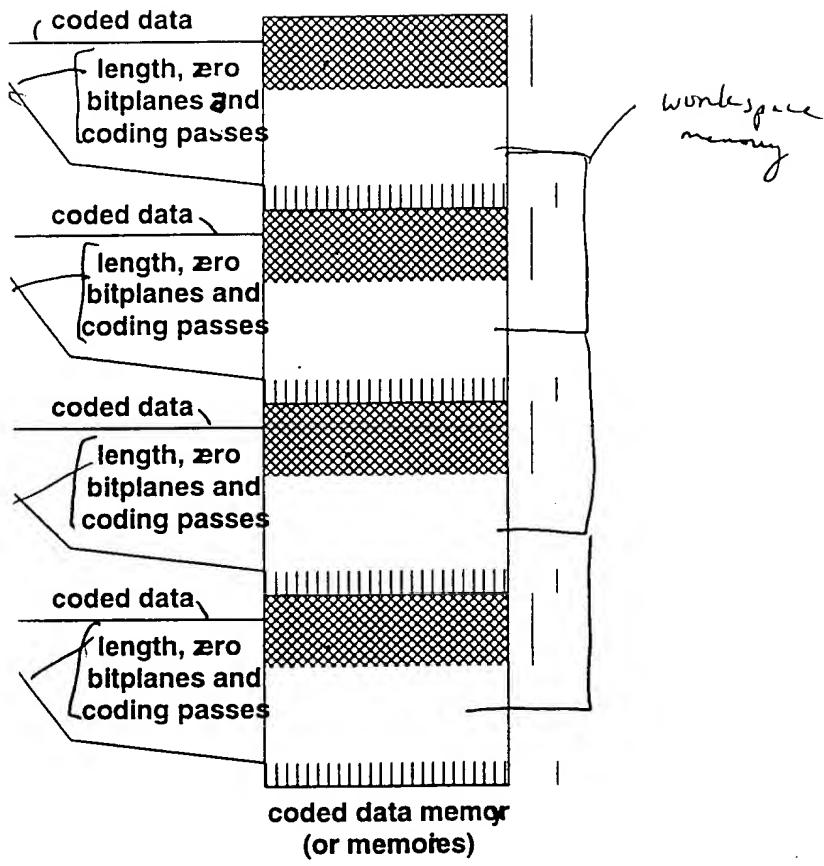


Figure 21

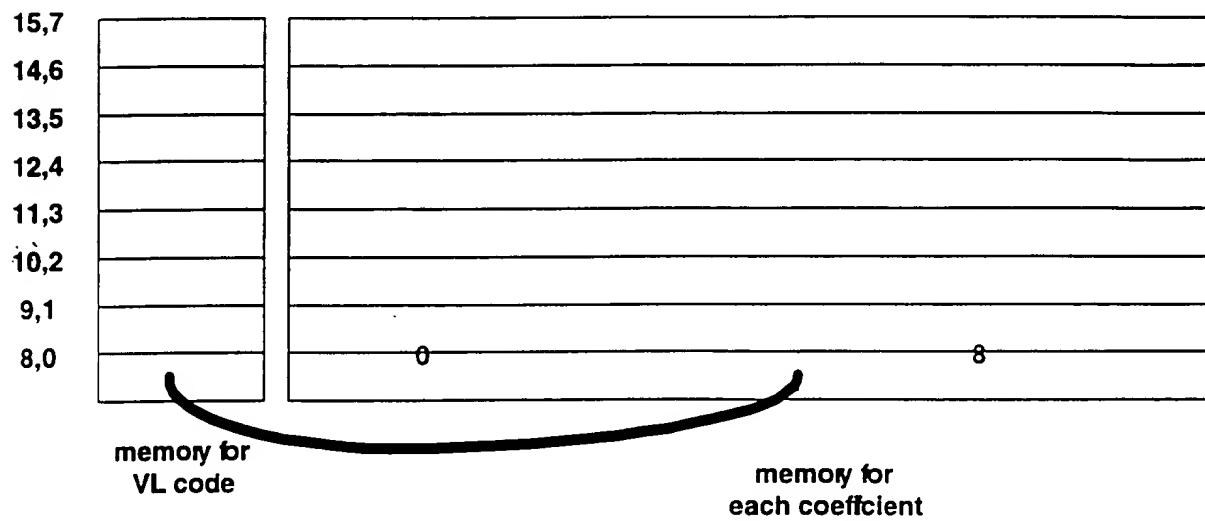
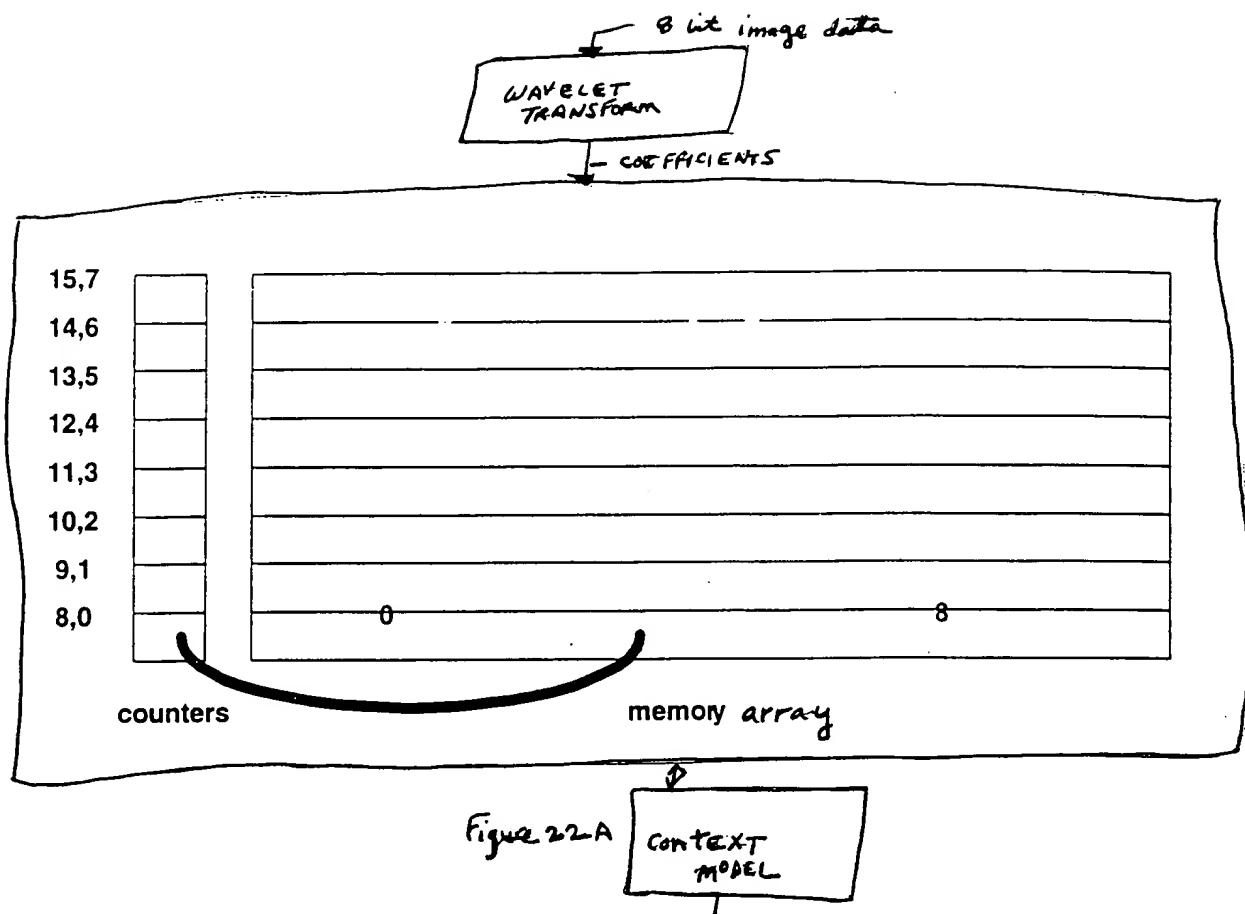


Figure 23

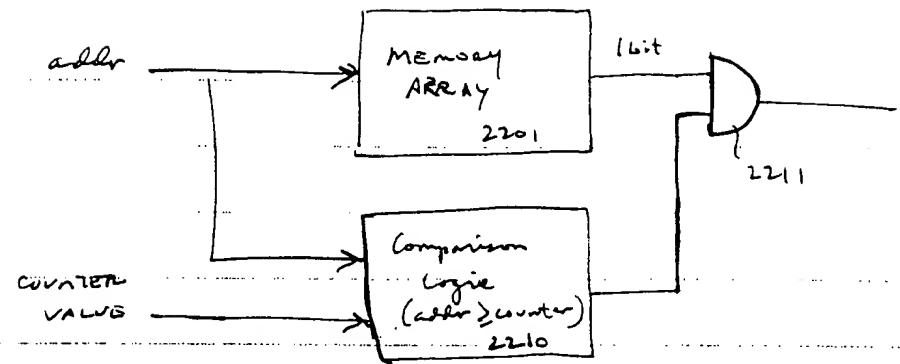


Figure 22B

FIG. 24

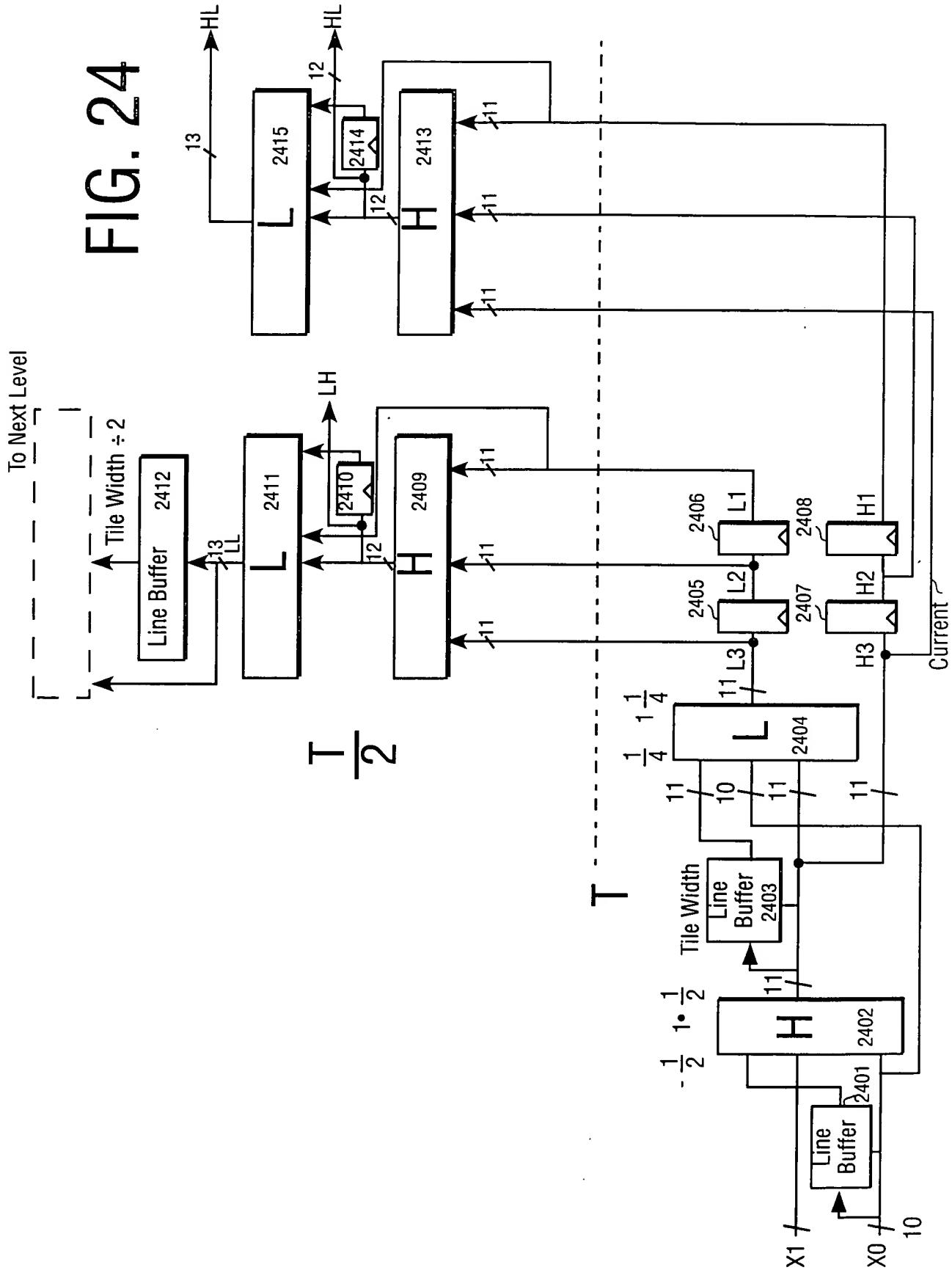


FIG. 25A

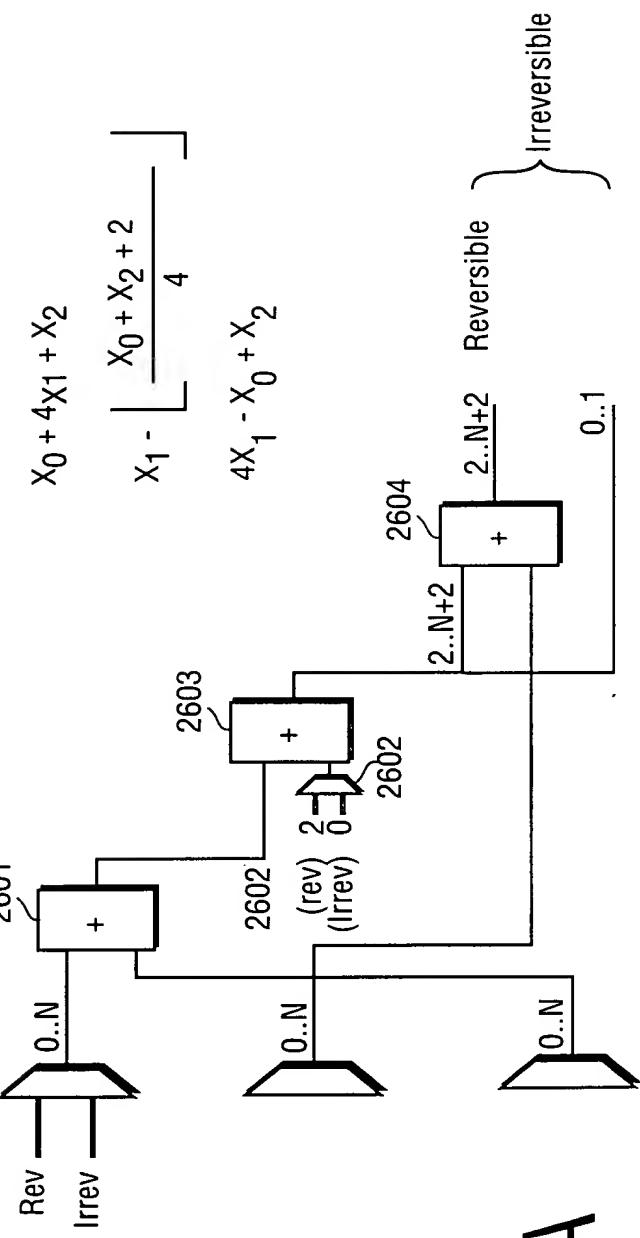
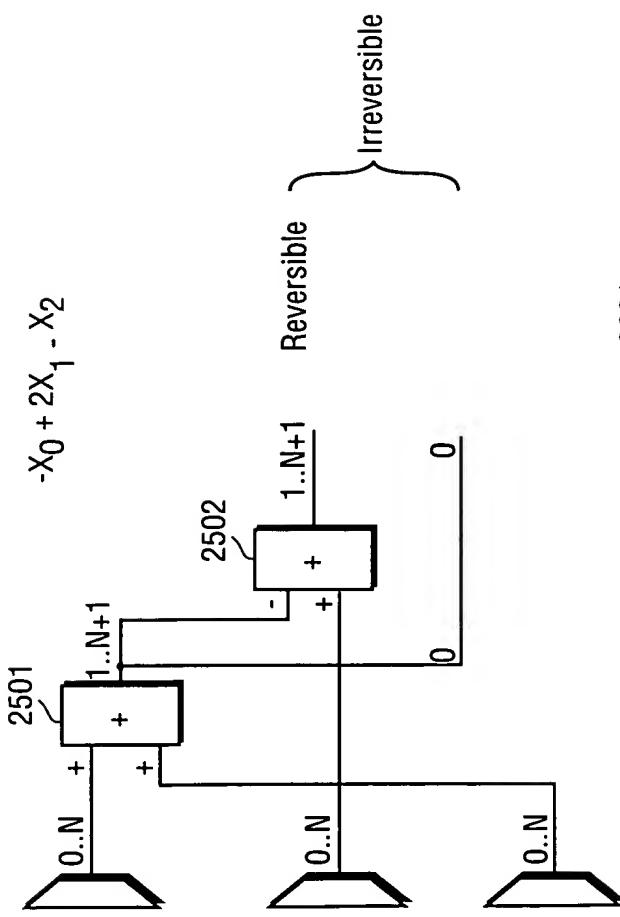


FIG. 26A

FIG. 25B

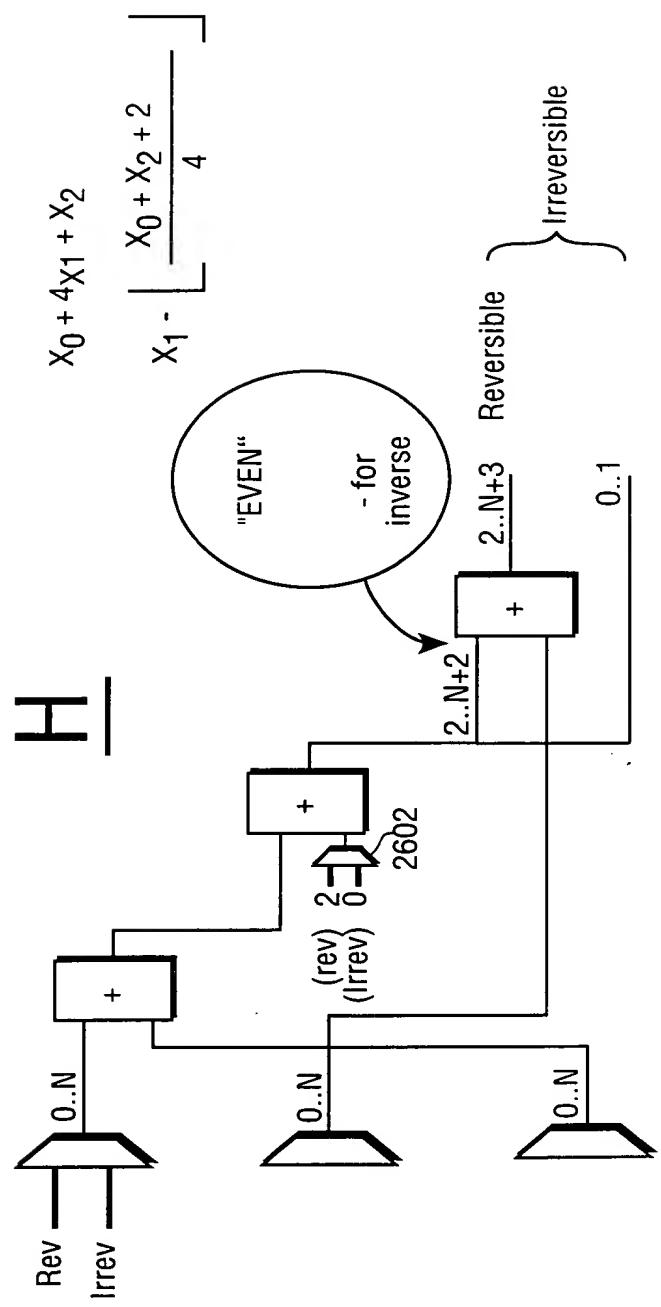
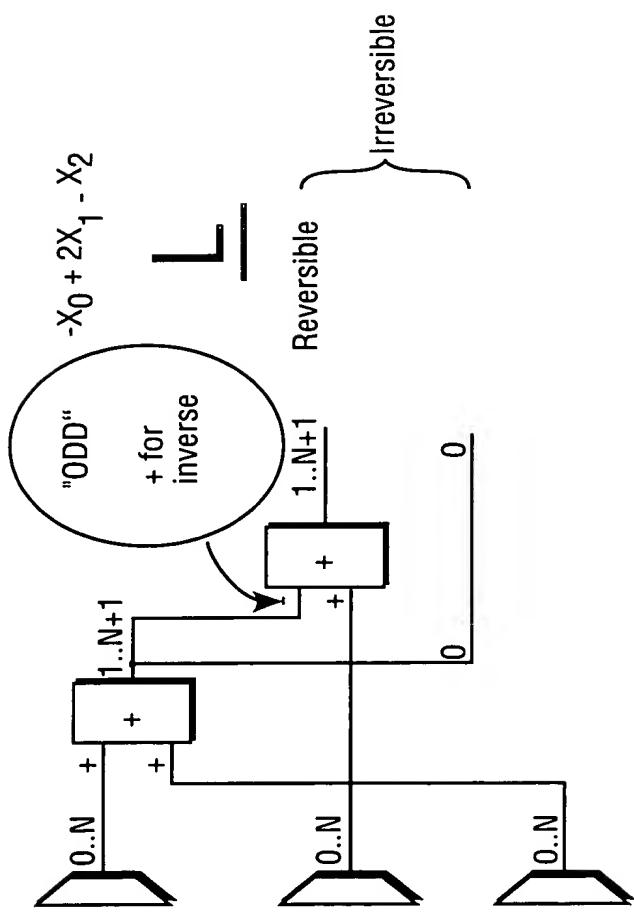


FIG. 26B

FIG. 27

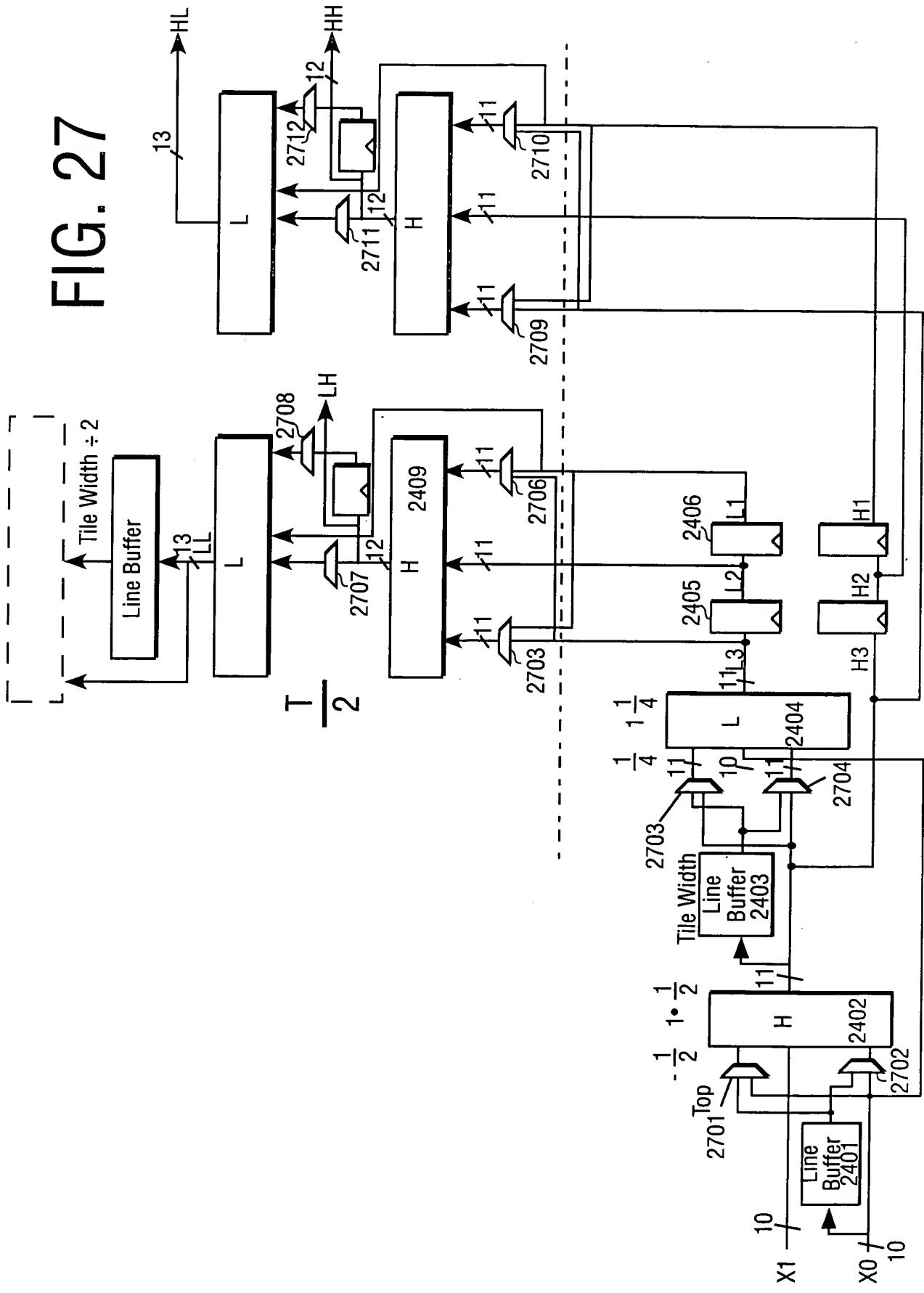
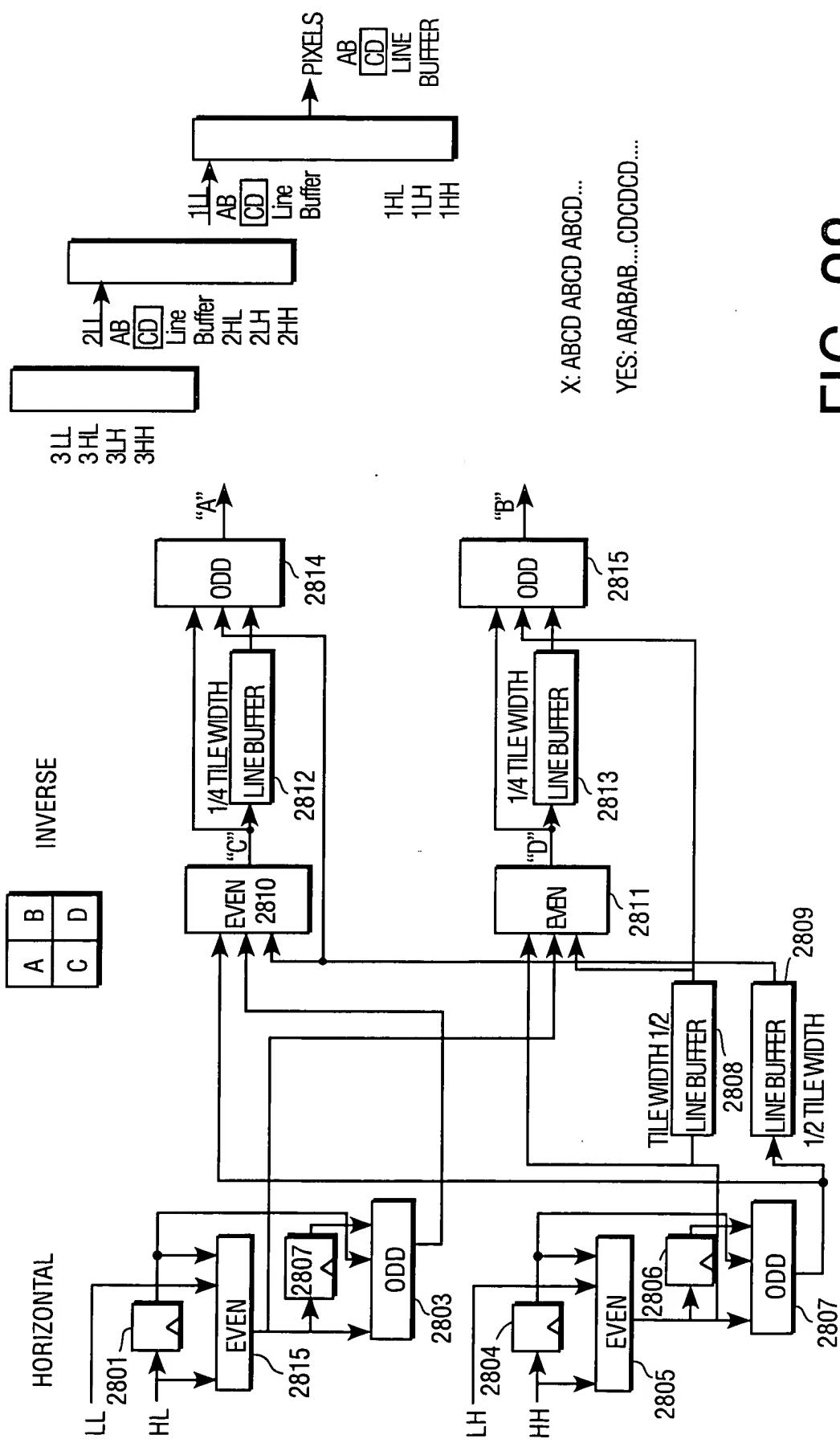


FIG. 28



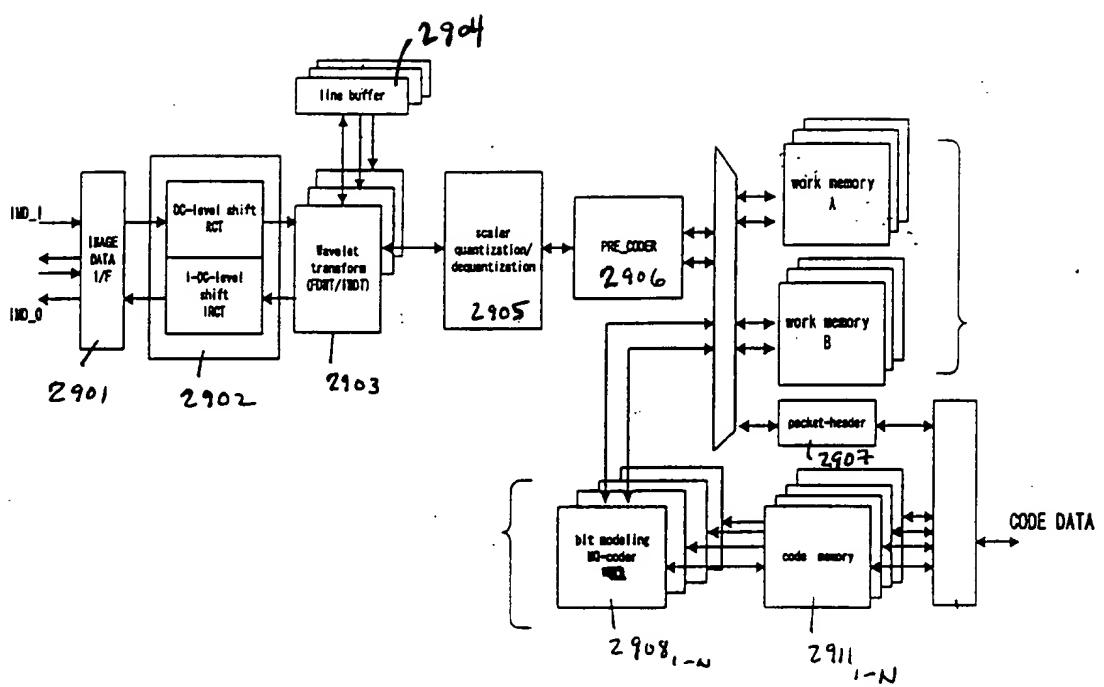


Figure 29

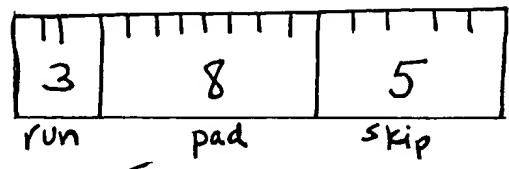


Figure 30

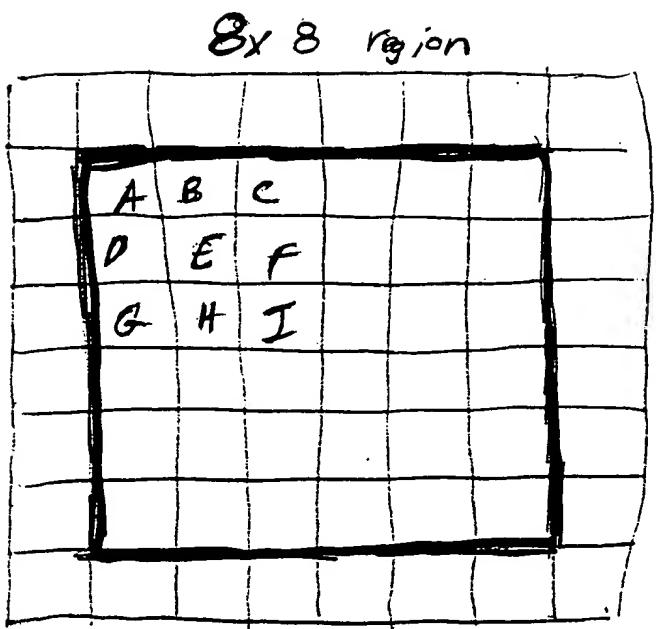


Figure 31

